

CLAIMS

1. An arc welding robot actuatable according to an operation pattern based on a previously set program or manually operated for welding, comprising:

5 a robot main body structured such that with the operation thereof can be controlled;

a wire feed device for feeding a welding wire; a rotary pipe shaft for holding the wire feed device on the robot main body such that the wire feed device can be rotated on the rotation surface thereof extending substantially in the same direction as the feeding 10 direction of the welding wire; and

a connecting cable and/or a gas hose necessary to execute welding, wherein the connecting cable and/or the gas hose are guided through the hollow portion of the rotary pipe shaft and are then guided through the base portion of the robot main body.

15 2. An arc welding robot as set forth in Claim 1, wherein the robot main body is a 6-shaft joint arm robot and the wire feed device is rotatably held on the forearm portion of the arm robot through the rotary pipe shaft.

20 3. An arc welding robot as set forth in Claim 1, wherein the connecting cable and/or the gas hose include at least one of a cable for welding power supply, a cable for an opening and closing signal for welding assist gas, a cable for wire feed device power supply, and a gas hose for supply of the welding assist gas.

25 4. An arc welding robot as set forth in Claim 1, further including a protection cover for covering the wire feed device.

5. An arc welding robot as set forth in Claim 1, further including a protection cover for covering the portions of the connecting cable and/or the gas hose ranging from the wire feed device to the rotary pipe shaft.